IN THE CLAIMS

Please amend the claims as follows:

- 1. (Currently Amended) <u>Power A power amplifier for amplifying</u> an electric signal in an operational frequency range, said power <u>amplifier comprising:</u>
- switching means for generating a block wave signal by alternately switching the block wave signal to a first supply voltage or a second supply voltage;
 - filter means for generating a power output signal by low low-pass filtering the block wave signal.
- input means for receiving the electric signal and driving the switching means, and
 - a control circuit coupled to the output power signal and the input means for controlling the power amplifier, characterized in that the control circuit is connected between the power output signal and a linear input of the input means for controlling both the gain in the operational frequency range and also—said alternately switching of the switching means, and said linear input being—is substantially free of hysteresis.
 - 2. (Currently Amended) Power The power amplifier as claimed in claim 1, wherein the control circuit only has a voltage feedback from the power output signal.

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- 3. (Currently Amended) Power The power amplifier as claimed in claim 2, wherein the control circuit comprises a first element, in particular the form of a resistor, for controlling said gain and a second element, in particular the form of a capacitance in series with a resistor, for controlling said alternately switching.
- 4. (Currently Amended) <u>Power The power amplifier as claimed in claim 1, wherein the filter means comprise comprises a self-inductance and a capacitance.</u>
- 5. (Currently Amended)

 Power The power amplifier as claimed in claim 1, wherein the switching means comprise comprises a first switching unit for switching to the first supply voltage and a second switching unit for switching to the second supply voltage, and the input means comprise comprises a voltage comparator having complementary current outputs for respectively driving the first and second switching unitunits.
- 6. (Currently Amended) Power The power amplifier as claimed in claim 5, wherein the voltage comparator comprises a difference amplifier and a switching current mirror providing said complementary current outputs.

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- 7. (Currently Amended) Power The power amplifier as claimed in claim 1, wherein the switching means comprise comprises a first switching unit for switching to the first supply voltage and a second switching unit for switching to the second supply voltage, both said first and second switching units being substantially identical.
- 8. (Currently Amended) Power The power amplifier as claimed in claim 7, wherein one of the switching units is floating with respect to said <u>first and second</u> supply voltages, and derives its power from a bootstrap diode power circuit.
- 9. (Currently Amended) Power The power amplifier as claimed in claim 1, wherein the switching means comprise comprises a driver circuit for a MOSFET type power switch, the circuit including an active pull-up circuit for discharging a gate of said power switch.
- 10. (Currently Amended) Power A power amplifier circuit, for use in a the power amplifier as claimed in claim 1, for amplifying an electric signal in an operational frequency range, the power amplifier circuit comprising:
- switching means for generating a block wave signal by alternately switching the <u>electric</u> signal to a first supply voltage or a second supply voltage; and

- input means for receiving the electric signal and driving the switching means,
- 10 characterized in that the input means have has a linear input for connecting a controlling circuit for controlling both the gain in the operational frequency range and also said alternately switching of the switching means, said controlling circuit being connected between the linear input and a power output signal generated by low low-pass filtering the block wave signal, said linear input being substantially free of hysteresis.